Examiner's Second Action dated December 18, 2002, together with a two month time extension to extend the due date to and including May 18, 2003.

## **In the Claims**:

## Amend claims 1 and 11 as follows:

- 1. (Amended) A method of forming a doped polycrystalline silicon gate in a Metal Oxide Semiconductor (MOS) device formed on a top surface of a crystalline silicon substrate comprising:
  - a) forming an insulation layer on said top surface of the silicon substrate;
- b) forming an amorphous silicon layer on top of and in contact with said insulation layer;
- c) introducing a dopant in a top surface layer of said amorphous silicon layer; and
- d) irradiating said top surface layer of said amorphous silicon layer with a radiation beam to heat said top surface layer to heat said top surface layer to a temperature between 1150°C and the melting temperature of said silicon substrate to initiate explosive recrystallization of said amorphous silicon layer to transform said amorphous silicon layer into a polycrystalline silicon gate with said dopant distributed uniformly throughout said polycrystalline gate.
- 11. (Amended) A method of forming a doped polycrystalline silicon gate in a Metal Oxide Semiconductor (MOS) device formed on a top surface of a crystalline silicon substrate comprising:
  - a) forming an insulation layer on said top surface of the silicon substrate;
- b) forming an amorphous silicon layer on top of and in contact with said insulation layer;
- c) forming a dopant layer on top of and in contact with said amorphous silicon layer; and
  - d) irradiating said amorphous silicon layer with a radiation beam to heat said top